Claims

An isolated plant sucrose-inducible promoter sequence, comprising a DNA [1] nucleotide sequence of a bp -1 to -1,908 region, relative to a transcription initiation site of SEQ ID NO: 1. [2] The isolated plant sucrose-inducible promoter sequence according to claim 1, wherein the said promoter sequence is derived from an ibAGP1 gene of sweetpotato ADP-glucose pyrophosphorylase. [3] An isolated 5' untranslated region of a sweetpotato ADP-glucose pyrophosphorlyase gene, comprising a nucleotide sequence of a bp +1 to +68 region, relative to a transcription initiation site of SEQ ID NO: 1. [4] A sucrose-inducible binary vector for plant transformation, comprising the plant sucrose-inducible promoter sequence of claim 1 and the 5' untranslated region of claim 3. A sucrose-inducible transient expression vector for plants, comprising the plant [5] sucrose-inducible promoter sequence of claim 1 and the 5' untranslated region of claim 3. [6] An E. coli carrying the sucrose-inducible binary vector for plant transformation of claim 4. [7] An E. coli carrying the transient expression vector of claim 5. A transgenic plant transformed with a binary vector comprising the plant [8] sucrose-inducible promoter sequence of claim 1 and the 5' untranslated region of claim 3. [9] PCR primers of SEQ ID NOS: 2 and 3, suitable for amplifying the DNA fragment comprising the sequence of SEQ ID NO: 1. [10] PCR primers of SEQ ID NOS: 4 and 5, suitable for amplifying the DNA

fragment comprising the sequence of SEQ ID NO: 1.